



US sequence listing.ST25.txt  
SEQUENCE LISTING

<110> Hone, David

<120> DNA Vaccines that Express Mutant ADP-Ribosyltransferase Toxins  
which Display Reduced, or are Devoid of, ADP-Ribosyltransferase  
Activity

<130> 08560002aa

<140> 10/632,095

<141> 2003-08-01

<160> 10

<170> PatentIn version 3.2

<210> 1

<211> 39

<212> DNA

<213> Artificial

<220>

<223> synthetic oligonucleotide primer

<400> 1

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39

<210> 2

<211> 45

<212> DNA

<213> Artificial

<220>

<223> synthetic oligonucleotide primer

<400> 2

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45

<210> 3

<211> 71

<212> DNA

<213> Artificial

<220>

<223> synthetic oligonucleotide primer

<400> 3

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60

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71

<210> 4

<211> 42

<212> DNA

<213> Artificial

<220>

<223> synthetic oligonucleotide primer

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<400> 4  
gccaaatata tggccatatt atcatcgtgt ttttcaaagg aa 42

<210> 5  
<211> 582  
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<213> Artificial

<220>  
<223> ctxA-S63K nucleotide sequence modified at nucleotides 187-189  
(TCA to AAA)

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ggctttatgc caagaggaca gaggtagtac ttgaccgag gtactcaaataaat gaatatcaac 120  
ctttatgatc atgcaagagg aactcagacg ggatttggtta ggcacgatga tggatatgtt 180  
tccacaaaaa ttagttttgag aagtgtccac ttagtggttc aaactatatt gtctgggtcat 240  
tctacttatt atatatatgt tatagccact gcaccaaca tgtttaacgt taatgatgta 300  
ttagggggcat acagtcctca tccagatgaa caagaagttt ctgctttagg tgggattcca 360  
tactcccaaa tatatggatg gtatcgagtt ctttttgggg tgcttgatga acaattacat 420  
cgtaataggg gctacagaga tagatattac agtaacttag atattgctcc agcagcagat 480  
ggttatggat tggcaggttt ccctccggag catagagctt ggagggaaga gccgtggatt 540  
catcatgcac cgccgggttg tgggaatgct ccaagatcat cg 582

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<210> 7  
<211> 30  
<212> DNA  
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<220>  
<223> synthetic oligonucleotide primer

<400> 7  
caaactaatt ttggtggaaa catatccatc 30

<210> 8  
<211> 582  
<212> DNA  
<213> Artificial

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<220>  
 <223> ctxA1-E29H nucleotide sequence modified at nucleotides 85-87 (GAG to CAC)

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 ggtcttatgc caagaggaca gagtcactac ttgaccgag gtactcaaat gaatatcaac 120  
 ctttatgatac atgcaagagg aactcagacg ggatttggtta ggcacgatga tggatatggt 180  
 tccacctcaa ttagtttgag aagtgtccac ttagtggttc aaactatatt gtctgggtcat 240  
 tctacttatt atatatatgt tatagccact gcaccaaca tgtttaacgt taatgatgta 300  
 ttaggggcat acagtcctca tccagatgaa caagaagttt ctgctttagg tgggattcca 360  
 tactcccaaa tatatggatg gtatcgagtt ctttttgggg tgcttgatga acaattacat 420  
 cgtaataggg gctacagaga tagatattac agtaacttag atattgctcc agcagcagat 480  
 ggttatggat tggcaggttt ccctccggag catagagctt ggaggggaaga gccgtggatt 540  
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<220>  
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<400> 9  
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<210> 10  
 <211> 30  
 <212> DNA  
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<220>  
 <223> synthetic oligonucleotide primer

<400> 10  
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